



Atlantic Environmental Contractors, Inc.

81 East Avenue • Lewiston, ME 04240

Phone: 207-783-1908 • Fax: 207-376-3237

Web: www.aecne.net

Asbestos Demolition Impact Survey Report

18 Newbury Street
Auburn, Me.

Prepared for:
Mr. Dereck Boulanger
City of Auburn
60 Court Street
Auburn, Me. 04210

Prepared by:

Peter Jabbusch

Asbestos Inspector # AI-0078

Atlantic Environmental Contractors, Inc.

81 East Ave.

Lewiston, Me.

Report date:
November 9, 2016

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1. Executive Summary

The following asbestos demolition impact survey was conducted on October 14th, 2016 by Peter Jabbusch a Maine licensed and certified Asbestos Inspector. The structure surveyed was a vacant two unit residential structure.

Prior to commencement of the survey representatives of Atlantic Environmental Contractors, Inc. (AEC) conducted a visual inspection of the interior and exterior of the building and developed a site specific sampling strategy in compliance with the Maine DEP Chapter 425 Regulations.

2. Scope Of Work

The scope of the survey was to identify building materials that potentially contain regulated levels of asbestos prior to demolition of the structure. Materials with greater than 1% asbestos content are considered regulated asbestos containing building materials.

3. Methods and Sampling Strategy

There are typically three types of suspect materials that must be sampled as part of a Demolition/Renovation Impact Survey:

- **Surfacing materials;** sprayed or applied by trowel and include fireproofing materials and various plasters. At least three bulk samples of surfacing materials were collected from each homogeneous area that was less than 1,000-square feet. Five bulk samples were collected for areas 1,000 to 5,000-square feet and seven bulk samples were collected for areas greater than 5,000-square feet
- **Thermal system insulation;** including boiler cover, pipe cover, and duct insulation were assessed. The materials were either assumed to be asbestos containing or were sampled as follows; At least three bulk samples of thermal system insulation from each homogenous area or at least one bulk sample from each homogeneous patched area if the section is less than six linear or square feet
- **Miscellaneous ACM;** includes a variety of ceiling tiles, floor tiles, and gypsum board. Sample quantities for miscellaneous ACM follow the same requirements as for the two previously mentioned ACM types.

The bulk samples were collected with standard sampling protocols, properly packaged and shipped to EMSL Analytical Laboratory South Portland, Maine for analysis by Polarized Light Microscopy (PLM) EPA method 600/R-93/116 and PLM NOB.

18 Newbury Street
Auburn, Me.

4. Asbestos Sample Results

Eight (8) sample groups were collected of the suspect building materials. The bulk sample analytical results indicate that there are regulated asbestos containing materials that will be impacted by the demolition activities. The sample locations type of material and analytical results are detailed below:

18 Newbury Street

| Sample # | Location | Description | Asbestos Type/Percentage | Approximate Asbestos Quantities |
|----------|--|------------------------|--------------------------|---------------------------------|
| B1A-B1C | 1 st & 2 nd Floor Flooring | 12X12 Floor Tile Tan | None Detected | - |
| B2A-B2C | Ceilings Throughout | Ceiling Tile Smooth | None Detected | - |
| B3A-B3C | Ceilings Throughout | Ceiling Tile Worm hole | None Detected | - |
| B4A-B4C | Ceilings and Walls Throughout | Sheetrock | None Detected | - |
| B5A-B5C | Throughout | Plaster | None Detected | - |
| B6A-B6C | Roofing Material Top layer | Roofing Material | None Detected | - |
| B7A-B7C | Roofing Material Bottom Layer | Roofing Material | None Detected | - |
| B8A-B8C | Roof | Vapor Barrier | Chrysotile – 2.6% | 1000 sq.ft. |

18 Newbury Street
Auburn, Me.

Should inaccessible suspect materials be discovered they should be assumed positive for asbestos content or sampled by a Licensed Asbestos Inspector prior to proceeding with demolition activities.

5. Universal Waste Inventory

- None

We appreciate the opportunity to assist the City of Auburn with this project, should you have any questions or comments please contact us at (207) 740-6743.

Very Truly,



Peter G. Jabbusch

Asbestos Inspector

(AI-0078) Exp. 01/15/17

ANALYTICAL RESULTS



EMSL Analytical, Inc.

161 John Roberts Road South Portland, ME 04106
Phone/Fax: (207) 517-6921 / (207) 517-6922
<http://www.EMSL.com> / portlandlab@emsl.com

EMSL Order ID: 621601593
Customer ID: ATLN34
Customer PO:
Project ID:

Attn: Frank Perry
Atlantic Environmental Contractors, Inc.
81 East Avenue Rear
Lewiston, ME 04240

Phone: (207) 783-1908
Fax: (207) 376-3237
Collected:
Received: 10/17/2016
Analyzed: 10/18/2016

Proj: 18 NEWBURY ST.

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: B1A

Lab Sample ID: 621601593-0001

Sample Description: TAN FLOOR TILE 1ST 2ND FLOOR - 12X12 FT TAN

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|---------------------|------------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM Grav. Reduction | 10/18/2016 | Tan | 0.0% | 100% | None Detected | |

Client Sample ID: B1B

Lab Sample ID: 621601593-0002

Sample Description: TAN FLOOR TILE 1ST 2ND FLOOR - 12X12 FT TAN

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|---------------------|------------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM Grav. Reduction | 10/18/2016 | Tan | 0.0% | 100% | None Detected | |

Client Sample ID: B1C

Lab Sample ID: 621601593-0003

Sample Description: TAN FLOOR TILE 1ST 2ND FLOOR - 12X12 FT TAN

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|---------------------|------------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM Grav. Reduction | 10/18/2016 | Tan | 0.0% | 100% | None Detected | |

Client Sample ID: B2A

Lab Sample ID: 621601593-0004

Sample Description: CEILING TILE SMOOTH 2X4 THROUGHOUT - 2X4 CT SMOOTH

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|------------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 10/18/2016 | Brown | 98% | 2% | None Detected | |

Client Sample ID: B2B

Lab Sample ID: 621601593-0005

Sample Description: CEILING TILE SMOOTH 2X4 THROUGHOUT - 2X4 CT SMOOTH

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|------------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 10/18/2016 | Brown | 98% | 2% | None Detected | |

Client Sample ID: B2C

Lab Sample ID: 621601593-0006

Sample Description: CEILING TILE SMOOTH 2X4 THROUGHOUT - 2X4 CT SMOOTH

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|------------------|-------------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 10/18/2016 | Brown/White | 98% | 2% | None Detected | |

Client Sample ID: B3A

Lab Sample ID: 621601593-0007

Sample Description: CEILING TILE WORMHOLE 2X4 THROUGHOUT - 2X4 CT WORMHOLE

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|------------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 10/18/2016 | Gray | 85% | 15% | None Detected | |



EMSL Analytical, Inc.

161 John Roberts Road South Portland, ME 04106
Phone/Fax: (207) 517-6921 / (207) 517-6922
<http://www.EMSL.com> / portlandlab@emsl.com

EMSL Order ID: 621601593
Customer ID: ATLN34
Customer PO:
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: B3B **Lab Sample ID:** 621601593-0008
Sample Description: CEILING TILE WORMHOLE 2X4 THROUGHOUT - 2X4 CT WORMHOLE

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 10/18/2016 | Gray | 85% | 15% | None Detected | |

Client Sample ID: B3C **Lab Sample ID:** 621601593-0009
Sample Description: CEILING TILE WORMHOLE 2X4 THROUGHOUT - 2X4 CT WORMHOLE

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 10/18/2016 | Gray | 95% | 5% | None Detected | |

Client Sample ID: B4A **Lab Sample ID:** 621601593-0010
Sample Description: SHEETROCK CEILING WALLS THROUGHOUT - SHEETROCK

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 10/18/2016 | Gray | 8% | 92% | None Detected | |

Client Sample ID: B4B **Lab Sample ID:** 621601593-0011
Sample Description: SHEETROCK CEILING WALLS THROUGHOUT - SHEETROCK

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 10/18/2016 | Gray | 8% | 92% | None Detected | |

Client Sample ID: B4C **Lab Sample ID:** 621601593-0012
Sample Description: SHEETROCK CEILING WALLS THROUGHOUT - SHEETROCK

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 10/18/2016 | Gray | 6% | 94% | None Detected | |

Client Sample ID: B5A **Lab Sample ID:** 621601593-0013
Sample Description: PLASTER THROUGHOUT - PLASTER

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 10/18/2016 | Gray | 0% | 100% | None Detected | |

Client Sample ID: B5B **Lab Sample ID:** 621601593-0014
Sample Description: PLASTER THROUGHOUT - PLASTER

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 10/18/2016 | Gray | 0% | 100% | None Detected | |

Client Sample ID: B5C **Lab Sample ID:** 621601593-0015
Sample Description: PLASTER THROUGHOUT - PLASTER

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 10/18/2016 | Gray | 0% | 100% | None Detected | |



EMSL Analytical, Inc.

161 John Roberts Road South Portland, ME 04106
Phone/Fax: (207) 517-6921 / (207) 517-6922
<http://www.EMSL.com> / portlandlab@emsl.com

EMSL Order ID: 621601593
Customer ID: ATLN34
Customer PO:
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: B6A **Lab Sample ID:** 621601593-0016
Sample Description: ROOFING MATERIAL TOP LAYER - ROOFING

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|---------------------|------------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM Grav. Reduction | 10/18/2016 | Black | 0.0% | 100% | None Detected | |

Client Sample ID: B6B **Lab Sample ID:** 621601593-0017
Sample Description: ROOFING MATERIAL TOP LAYER - ROOFING

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|---------------------|------------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM Grav. Reduction | 10/18/2016 | Black | 0.0% | 100% | None Detected | |

Client Sample ID: B6C **Lab Sample ID:** 621601593-0018
Sample Description: ROOFING MATERIAL TOP LAYER - ROOFING

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|---------------------|------------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM Grav. Reduction | 10/18/2016 | Black | 0.0% | 100% | None Detected | |

Client Sample ID: B7A **Lab Sample ID:** 621601593-0019
Sample Description: ROOFING MATERIAL BOTTOM LAYER - ROOFING

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|---------------------|------------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM Grav. Reduction | 10/18/2016 | Black | 0.0% | 100% | None Detected | |

Client Sample ID: B7B **Lab Sample ID:** 621601593-0020
Sample Description: ROOFING MATERIAL BOTTOM LAYER - ROOFING

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|---------------------|------------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM Grav. Reduction | 10/18/2016 | Black | 0.0% | 100% | None Detected | |

Client Sample ID: B7C **Lab Sample ID:** 621601593-0021
Sample Description: ROOFING MATERIAL BOTTOM LAYER - ROOFING

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|---------------------|------------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM Grav. Reduction | 10/18/2016 | Black | 0.0% | 100% | None Detected | |

Client Sample ID: B8A **Lab Sample ID:** 621601593-0022
Sample Description: ROOF - VAPOR BARRIER

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|---------------------|------------------|-------|--------------|-------------|-----------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM Grav. Reduction | 10/18/2016 | Black | 0.0% | 97.4% | 2.6% Chrysotile | |

Client Sample ID: B8B **Lab Sample ID:** 621601593-0023
Sample Description: ROOF - VAPOR BARRIER

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|---------------------|------------------|-------|--------------|-------------|------------------------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM Grav. Reduction | 10/18/2016 | | | | Positive Stop (Not Analyzed) | |



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EMSL Order ID: 621601593
Customer ID: ATLN34
Customer PO:
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: B8C

Lab Sample ID: 621601593-0024

Sample Description: ROOF - VAPOR BARRIER

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|---------------------|------------------|-------|--------------|-------------|------------------------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM Grav. Reduction | 10/18/2016 | | | | Positive Stop (Not Analyzed) | |

PLM: Maine Certification # BA-0174, BA-0178

PLM EPA NOB: Maine Certification # BA-0174, BA-0178

Analyst(s):

Stephen Severn PLM (8)
PLM Grav. Reduction (4)
Zackary Carbee PLM (4)
PLM Grav. Reduction (6)

Reviewed and approved by:

Christina Walker, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. This test report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. EMSL bears no responsibility for sample collection activities or analytical method limitations. The laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples. PLM alone is not consistently reliable in detecting asbestos in floor coverings and similar NOBs

Samples analyzed by EMSL Analytical, Inc. South Portland, ME

Initial report from: 10/18/2016 09:57

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAININGAsbestos Bulk Building Material
Chain of Custody

EMSL Order Number (Lab Use Only):

621601593

South Portland, ME 04106

PHONE: (207) 517-6921

FAX: (207) 517-6922

| Company: Atlantic Environmental Contractors | | EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments** | |
|--|---------------------------------|--|---|
| Street: 81 East Ave. Rear | | Third Party Billing requires written authorization from third party | |
| City: Lewiston | State/Province: ME | Zip/Postal Code: 04240 | Country: US |
| Report To (Name): Frank Perry | | Telephone #: 2077831908 | |
| Email Address: fperry@aecne.net | | Fax #: 2073763237 | Purchase Order: AEC1736 |
| Project Name/Number: 18 Newbury St. | | Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input type="checkbox"/> Mail | |
| U.S. State Samples Taken: ME | | CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt | |
| Turnaround Time (TAT) Options* - Please Check | | | |
| <input type="checkbox"/> 3 Hour | <input type="checkbox"/> 6 Hour | <input type="checkbox"/> 24 Hour | <input type="checkbox"/> 48 Hour <input checked="" type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week |
| *For TEM Air 3 hr through 6 hr, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide. | | | |
| PLM - Bulk (reporting limit) | | TEM - Bulk | |
| <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) | | <input type="checkbox"/> TEM EPA NOB - EPA 600/R-93/116 Section 2.5.5.1 | |
| <input checked="" type="checkbox"/> PLM EPA NOB (<1%) | | <input type="checkbox"/> NY ELAP Method 198.4 (TEM) | |
| Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) | | <input type="checkbox"/> Chatfield Protocol (semi-quantitative) | |
| Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) | | <input type="checkbox"/> TEM % by Mass - EPA 600/R-93/116 Section 2.5.5.2 | |
| <input type="checkbox"/> NIOSH 9002 (<1%) | | <input type="checkbox"/> TEM Qualitative via Filtration Prep Technique | |
| <input type="checkbox"/> NY ELAP Method 198.1 (friable in NY) | | <input type="checkbox"/> TEM Qualitative via Drop Mount Prep Technique | |
| <input type="checkbox"/> NY ELAP Method 198.6 NOB (non-friable-NY) | | Other | |
| <input type="checkbox"/> OSHA ID-191 Modified | | <input type="checkbox"/> | |
| <input type="checkbox"/> Standard Addition Method | | | |
| <input checked="" type="checkbox"/> Check For Positive Stop - Clearly Identify Homogenous Group | | Date Sampled: | |
| Samplers Name: | | Samplers Signature: | |
| Sample # | HA # | Sample Location | Material Description |
| B1A-C | | Tan Flextile 1st & 2nd Floor | 12x12 FT Tan |
| B2A-C | | Ceiling Tile Smooth 2x4 Throughout | 2x4 CT Smooth |
| B3A-C | | Ceiling Tile Wormhole 2x4 Throughout | 2x4 CT Wormhole |
| B4A-C | | Sheetrock ceilings & walls Throughout | Sheetrock |
| B5A-C | | Plaster Throughout | Plaster |
| B6A-C | | Roofing material Top Layer | Roofing |
| B7A-C | | Roofing material Bottom Layer | Roofing |
| B8A-C | | Roof. | Vapor Barrier |
| Client Sample # (s): REL B1A - B8C Total # of Samples: 24 | | | |
| Relinquished (Client): AEC | | Date: 10/14/16 | Time: |
| Received (Lab): [Signature] | | Date: 10/17/16 | Time: 9:45AM |
| Comments/Special Instructions: | | | |

